

Message

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Sent: 9/12/2018 11:03:51 PM
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Subject: HAMP Progress Meeting Deliverables
Attachments: Executive Summary to HAMP 10% design.pdf

Hello All,

Last week's Thursday-morning HAMP meeting in Flagstaff was timely and will hopefully serve to align the efforts of IHS and the Hopi Utility Corporation (HUC) moving forward. A sincere thank-you to all who attended, the HUC for hosting, and Tim for providing meeting summary points. The intent of the below is to address those summary comments and to lay the groundwork for continued progress on the HAMP.

As was stated during last Thursday's meeting, the IHS will execute a government to government Memorandum of Agreement (MOA) with the Hopi Tribe as we have successfully done for decades and as our Program requires. Due to the substantial financial commitment being made by IHS, this document is undergoing a review by Headquarters. I would expect the final MOA to be conveyed to the Hopi Tribe by early next week. It is not expected that this document will differ significantly from past MOA documents as the provisions contained in the MOA are based on national standards.

Because the HAMP 10% Design Report of 10 July 2018 was largely considered an internal document and labeled as a draft when submitted to the HUC, the IHS has formalized its endorsement of that report with the attached executive summary which should be viewed as an after-the-fact preface to the report. As the designated HAMP engineering entity, the IHS asserts its responsibility for the evaluation of design alternatives and its recommendation of the "J-hook" transmission system configuration as presented in the referenced 10% Design Report.

As design efforts move forward, it is expected that the IHS will further refine its hydraulic water-model for the selected HAMP pipeline configuration. Included with that effort will be additional considerations for water-hammer and pipeline pressure surge conditions which are a function of flow velocity and the ramp-up/ramp-down times which control changes to those velocities. Several techniques and remedies are available to deal with dynamic hydraulic forces including surge tanks, variable frequency drive (VFD) motor controllers, soft starts, and slow opening/slow closing control valves. If surge tanks are chosen in the design, a transient surge analysis will be completed to support the design.

The IHS prepared a project schedule to accompany the Project Summary as required by USEPA to secure their \$3M contribution to the HAMP, to provide a basic project schedule for discussion with our many stakeholders, and for the benefit of USEPA regulatory staff. As discussed with the Hopi Tribal Council in July 2018, IHS believes that the USEPA will very likely craft their pending administrative orders to the HAMP villages to correspond with the project completion schedule that IHS has developed. A high degree of granularity was not required to address the above goals. Internally, the IHS has developed a more comprehensive schedule which will be a changeable work in progress between project start and project completion. IHS will utilize this schedule to prioritize our efforts and network with stakeholders on well-defined critical path items.

HAMP 10% Design Report construction cost estimates for the project alternatives are based on the IHS' regional experience at Navajo, Phoenix, and Tucson Area IHS offices with various contractors performing the work.

The IHS/EADO is reviewing the HUC's 06 August 2018 HAMP 10% Design Report preliminary review memorandum. A response to that document should be available to HUC by 24 September. At that time the IHS would like to meet at the EADO in Lakeside for a design up-date meeting to help assure that the HUC has a clear understanding of how the IHS' HAMP design process is proceeding.

The HUC has indicated that they intend to review HAMP submittals from the IHS for completeness within 15 Days and to perform submittal review within 30 days of complete submittals. Please understand that the IHS is the lead agency and design engineer for the HAMP and while we seek and value the HUC's input on our designs we will not be bound by it. As lead agency we are responsible by law for ensuring compliance with the National Environmental Policy Act (NEPA) and IHS has successfully garnered the input and consensus of many stakeholders as represented by completion of the HAMP Environmental Assessment. This document contains letters of support from Village traditional and governmental leadership, the Hopi Tribe and many others. This document will need to be updated to address water main reroutes that have since been requested by FMCV and as required by an evolving design. The HUC's input and assistance in keeping our collective stakeholders well informed and in securing their concurrence with the aforementioned reroutes will be critical. To this end, IHS addressed Tribal Council in July 2018 and committed to attend and present on HAMP progress at monthly CSA and Water and Energy Board meetings and quarterly Tribal Council meetings. We welcome your partnership in attending those meetings with us and if we can get aligned we may be able to alternate attendance to cooperatively keep these groups informed. To assist with alignment of our two organizations we propose bi-monthly meetings with the HUC at our Lakeside office. These meetings would be arranged by CAPT Brad Rea, CDR James Carter, and Mr. Tim Bodell.

Due to the legislative requirement for a government-to government relationship relative to Public Law 86-121 and as described earlier, the IHS must consider the Hopi Tribe to be the owner of HAMP facilities. Subsequent ownership or facility operational assignments by the Hopi Tribe to the HUC will be viewed as internal issues of the Hopi Tribe and not within the jurisdiction of the IHS.

The reference to the implementation of partnering project management methods as published by the Project Management Institute are appreciated as a resource to be reviewed as the IHS, the HUC, the Tribe, the Villages, and our many stakeholders as we move forward with the HAMP effort.

Much thanks for the comments and progress meeting notes from last week.

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